

12-4-2009

Ex. 280-US-425

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"Rite in the Rain"
ALL-WEATHER WRITING PAPER



LEVEL

All-Weather Notebook
No. 311

Sprague SP-2
Wide Riffle Cascade
6-20-06 (High Flow)

4 5/8" x 7" - 48 Numbered Pages

1600.07

2		3	
Photo Log			
#		Riffle	
1	D/S from above TR3 Riffle ✓	SC Reading	
2	TR3 R-1	10:45 am 1.36'	2.36
		2 pm 1.36'	

2		3	
Photo Log			
#		Riffle	
1	D/S from above TR3 Riffle ✓	SC Reading	
2	TR3 R-1	10:45 am 1.36'	2.36
		2 pm 1.36'	

2		3	
Photo Log			
#		Riffle	
1	D/S from above TR3 Riffle ✓	SC Reading	
2	TR3 R-1	10:45 am 1.36'	2.36
		2 pm 1.36'	

2		3	
Photo Log			
#		Riffle	
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		2 pm 1.36'	

2		3	
Photo Log			
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		2 pm 1.36'	

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Photo Log			
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		2 pm 1.36'	

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Photo Log			
#		Riffle	
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2	TR3 R-1	10:45 am 1.36'	2.36
		2 pm 1.36'	

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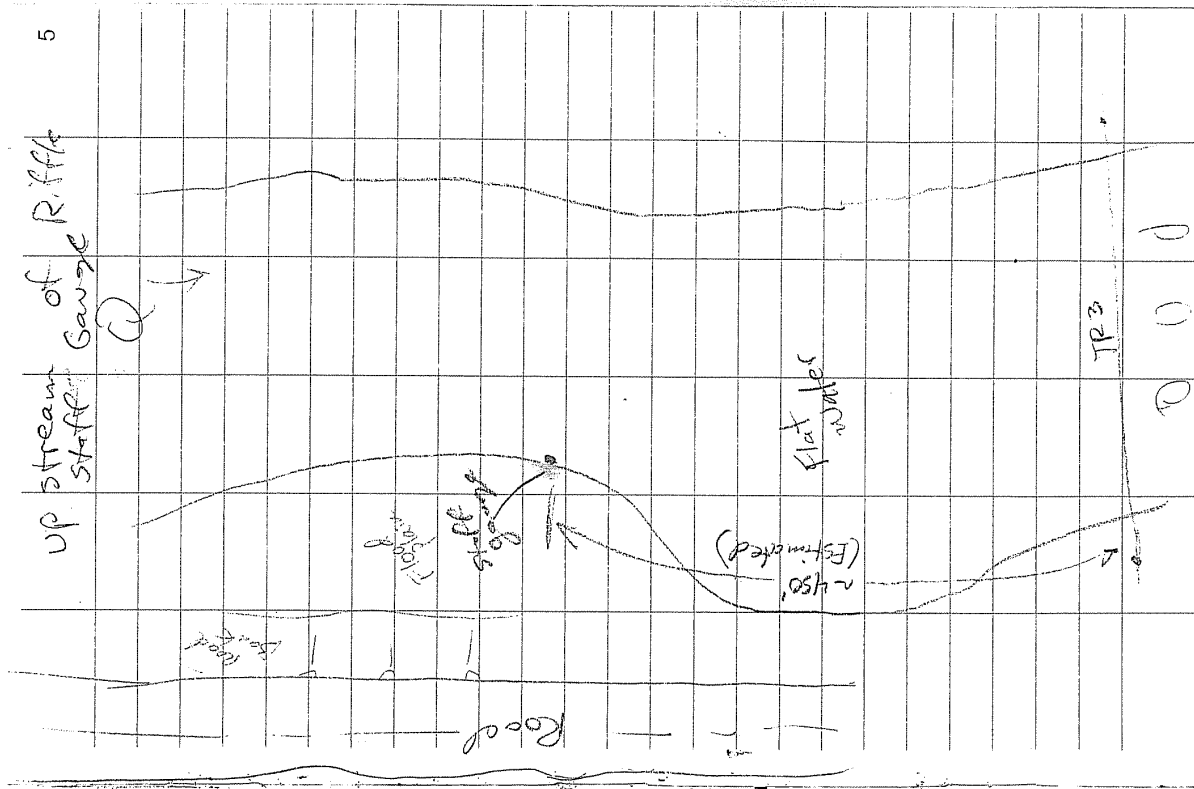
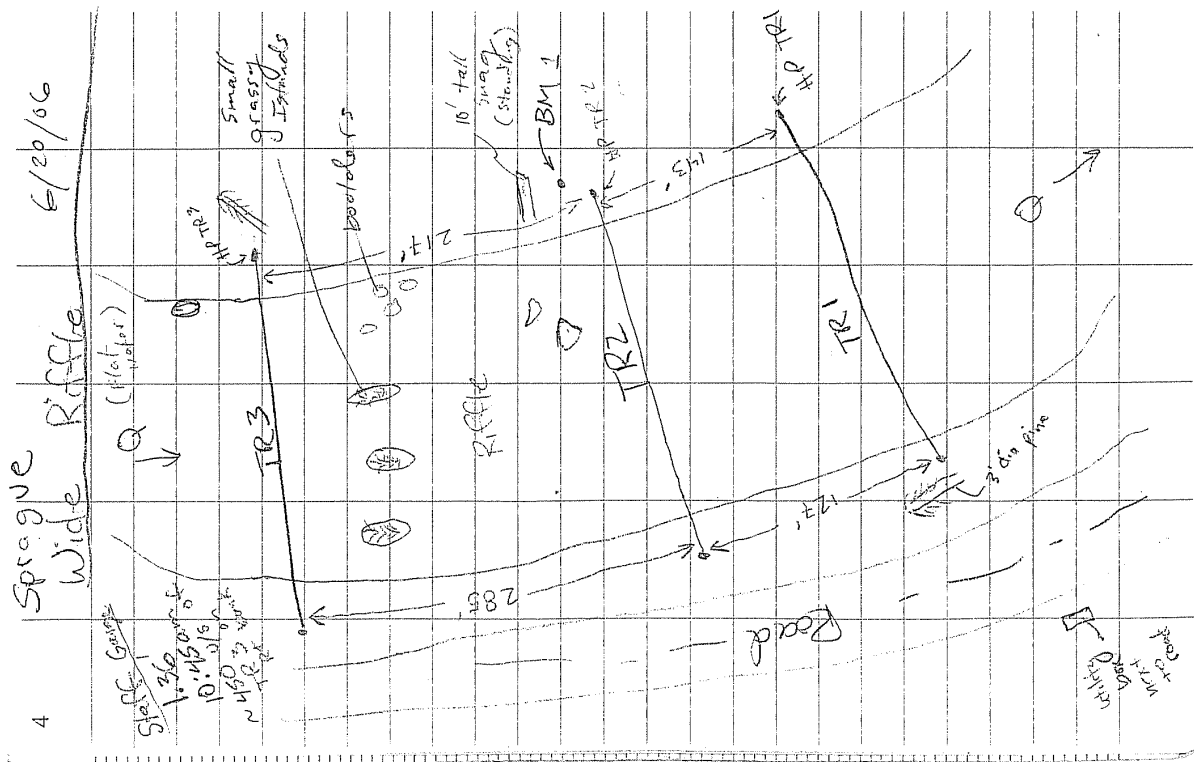
2		3	
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		2 pm 1.36'	

2		3	
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		2 pm 1.36'	



Ex. 280-US-425
Page 4 of 37

12 Sp 2		Raffle		7/26/06	
STA	BS	HI	FS	ELEV	
BM1	3.50	103.50		100.00	
HP2			3.56	99.94	
HP1			3.19	100.31	
HP3	2.20	103.45	2.25	101.25	✓
HP2			3.51	99.94	✓
HP1			3.11	100.34	(+0.03) Not Closed
BM			3.44	100.01	DO NOT OVER
STA	BS	HI	FS	ELEV	
BM	3.43	103.43		100.00	
HP2			3.51	99.92	
HP1			3.11	100.32	
HP3	2.29	103.52	2.26	101.23	
HP2			3.60	99.92	
HP1			3.20	100.32	
BM			3.52	100.00	Depth
LWSE (~100' 4/5 TR2)			10.94	93.56	0.98
TR3 LWSE (24')			8.46	95.95	0.89
LWSE (~100' 4/5 TR3)			7.83	96.19	0.50
TR2 LWSE (19')			9.79	94.28	0.55
TR2 RWSE (145')			9.70	94.37	0.55
TR3 RWSE			9.07	95.90	1.45
RWSE (~100' 4/5 TR3)			8.81	96.29	1.58

7/26/06		13	
IN	Time	Read	
IN	8:45am	0.86	
OUT	11:45am	0.86	
RAFFLE WSE Survey cont.			
STA	BS	HI	FS
TR1 LWSE (29')		103.52	10.25
TR1 RWSE (149')			10.80
RWSE (~100' 4/5 TR1)			11.28
			93.76
			93.76
			93.58
			1.04
			1.34
			0.49
			Depth

15

16	SP-2	Riffle Level	Loop	Bank Survey	8/30/06	LOW
	STA	BS	HI	FS	ELFV	Depth
	HP 3	9.56	110.79		101.23	
	Bm	8.45	108.45	10.79	100.00	
	HP 2			8.53	99.92	
	HP 1	8.10	109.91	8.14	100.31	
	HP 2			8.49	99.92	
	Bm			8.211	100.00	✓
	HP 2	10.83	110.79		99.92	✓
	HP 3			9.54	101.23	✓
	TR 3	Bank Survey				
	HP 3	8.55	109.78		101.23	
	LWP (1.0')			10.43		
	-9'			6.54		
	-19'			4.92		
	5'			11.55		
	11'			12.62		
	15'			13.54		
	17'			13.82		
	LWSE (24')			14.73	95.75	0.70
	RWSE (196')			15.48	95.72	1.42
	200'			12.94		
	205'			11.61		
	209'			10.52'		
	210.2' (LOW)			10.42		

21

STA	BS	HI	FS	E	D
13'		107.69	8.83		
1'	LWP	56.14			
21'			8.92		
26'			8.46		
34'			8.14		
LWSE (16')			12.79	97.46	2.56
New Setup - continue TR 3 survey					
STA	BS	HI	FS	E	D
HP 3	14.83	115.43			100.60
156'			13.07		
RWP (145.4')			15.96		
142'			16.25		
139'			17.44		
136'			17.64		
121.5' (RWSE)			19.15	97.50	1.22

SP-2 Low
calculable

TR-3 Bank Survey

24

25

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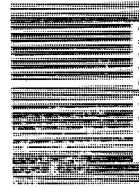
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LEVEL

All-Weather Notebook
No. 311

Klamath Basin
2006 Instream Flow
Sprague, Williamson Rivers

4 5/8" x 7" - 48 Numbered Pages

1600.07

6/20/06 Sprague River SP-2		High Flow Data Set		Discharge Measurement		TR-3		meter # 3622 prop 3A cal = 0.01	
Station	Depth	Veloc	Sub	Notes					
LWP	1.0'	-	-	-					
LWE	13.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	17.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	18.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	20.0	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
	24.0	1.50	0.25	0.25	0.25	0.25	0.25	0.25	0.25
	27.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	30.0	1.25	1.91	1.91	1.91	1.91	1.91	1.91	1.91
	40.0	1.70	2.60	2.60	2.60	2.60	2.60	2.60	2.60
	50.0	1.90	1.44	1.44	1.44	1.44	1.44	1.44	1.44
	60.0	1.50	0.44	0.44	0.44	0.44	0.44	0.44	0.44
	70.0	1.80	2.21	2.21	2.21	2.21	2.21	2.21	2.21
	79.0	1.70	1.36	1.36	1.36	1.36	1.36	1.36	1.36
	80.0	0.50	2.43	2.43	2.43	2.43	2.43	2.43	2.43
	83.0	1.50	2.37	2.37	2.37	2.37	2.37	2.37	2.37
	90.0	2.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
	91.5	2.10	0.94	0.94	0.94	0.94	0.94	0.94	0.94
	93.0	2.10	1.11	1.11	1.11	1.11	1.11	1.11	1.11
	100.0	8.55	1.50	1.50	1.50	1.50	1.50	1.50	1.50
	110.0	2.90	1.74	1.74	1.74	1.74	1.74	1.74	1.74

Station	Depth	Velocity	Subst	Note
120.0	3.10	1.50	0.06/bldr	
126.0	2.40	1.58	bldr/cob	
127.0	0.80	2.23	bldr/cob	
129.0	3.00	2.31	cob/bldr	
130.0	2.60	2.40	cob/1.51	
140.0	2.60	2.20	0.05/1.41	
150.0	2.70	2.09	0.05/bldr	bldrs v/s
160.0	2.70	2.59	cob/1.9 gr	
170.0	2.40	1.30	cob/bldr	
180.0	2.10	1.23	cob/bldr	
190.0	1.55	1.84	cob/1.9 gr	
194.0	1.60	1.50	cob/bldr	
197.0	1.85	0.40	1.9 gr/sm gr	
198.5	1.65	0.0	silt/0.9 veg	
199.0	0.0	0.0	silt/0.9 veg	
RMP	210.2'	-	-	
Photos				
1 Look at TR-3	TR-3	TR-3	TR-3	TR-3
2 RB → LB, TR-3	TR-3	TR-3	TR-3	TR-3
3 LB → RB, TR-3	TR-3	TR-3	TR-3	TR-3
4 LB → RB, TR-1	TR-1	TR-1	TR-1	TR-1
5/6 TR-1	TR-1	TR-1	TR-1	TR-1

26	TR-3	Sprague	R	SP-2	TR-3	07/26/06	Mid Flow	TR-3	27
	8130			Sub		5000	3600		
STA	Depth	Vel	Down	Sub	% B	Cover	Comments		
LWE = 10.9	0.0	0.0				LWE			
18	0.15	0.05							
20	0.32	0.0							
24	0.92	0.25					veg/edge		
27	0.50	1.03					80° flow angle		
30	0.68	0.83					45° flow angle		
40	1.25	1.53/0.50							
50	1.35	0.73							
60	1.05	0.37					ups bld cover		
70	1.27	1.96							
79	1.20	0.95					Top bld		
80	0.05	0.93							
83	0.95	1.20					behind/dys of bld		
90	1.35	1.05					Top bld		
91.5	0.45	0.0/0.10							
93	1.52	0.51					agentic		
100	1.98	0.82/0.50					creeping		
110	2.3	0.74					channel		
120	2.6	1.0/0.18					significant		
126	1.88	0.82							
90.5	1.16	0.05					new vel		

use sub. from 06/30/06 survey

STA	Depth	Vol	Dist	Sub	% E
127	0.32	0.69			
129	2.40	0.72			
130	2.0	1.65			
140	2.0	0.88			
150	2.15	0.78			
160	2.12	1.36			
170	1.8	0.76			
180	1.60	1.6/1.81			
190	1.0	1.09			
194	1.08	1.29			
197	1.52	0.69			
198.5	1.1	0.05	sm grav	cds.	30
198.6	0.0	0.0	veg	sift	
92.9	0.72	0.17			
85.0	1.0	1.94	sm grav	bl	40
61.2	1.15				

Cartia

Cover

top

Comments

behind

edge
cont blank

30° angle

Top

SP-2	TR-2	Sub	Sub	Sub	Sub
STA	Depth	Vol	Area	Sub	Sub
100.0	0.0	0.0			
101.0	0.0	0.0	bld	slit	50
102.0	0.8	1.04	sm grav	bld	30
103.0	0.8	0.61	cob.	lg grav	30
104.0	0.82	0.10	"	"	"
105.0	0.88	0.74	lg grav	cobl	25
106.0	1.20	0.69	cob	lg grav	25
107.0	1.90	0.60	bld	"	"
108.0	1.92	0.86	cob	bld	40
109.0	2.37	0.26	bld	cob	40
110.0	2.35	2.79	cob	lg grav	"
111.0	2.0	2.00	bld	cob	"
112.0	1.55	2.25	"	"	30
113.0	1.25	1.15	bld rock	lg grav	"
114.0	1.25	0.10	"	bld	"
115.0	1.08	0.97	"	"	"
116.0	1.05	1.58	"	"	"
117.0	0.35	1.64	bld	bld rock	"
118.0	0.85	0.82	"	"	"
119.0	0.10	0.28	"	cob	"
120.0	1.10	1.47	"	"	"
121.0	1.0	1.28	"	"	"

wide	Riff	* good D-measurement *
Cover	Notes	
edge	edge bld	
u/s bld		
d/s bld		
edge of bld		
u/s bld / bld rock		
10° flow angle		
edge bld	15° flow angle	
btw bld	30° "	
top bld		

STA	Depth	Vel	Dem	Sub	%E
139.5	0.85	1.2	bld	calc	30
140.8	0.7	—	"	"	"
142.0	0.90	0.72	"	"	"
145.0	0.5	0.67	"	silt	45
RWE-146.4	0.0	0.0	silt	bld	60
Rwl 156.5					

Cover	Notes
bld	edge bld 15° flow angle
bld/edge	"

07/25/06 auto

SP-2 wide R/lle TR-1

sub.

STA	Depth	Vel	Dir	Sub
160.4		-		
152.6	0.0	0.0	SEA	SH
150.3	0.10	0.58	Bld	C.b
149.5	1.00	0.35	Bld	C.b
147.0	0.70	1.07	C.b	Bld
145.0	0.55	1.10	Bld	C.b
144.5	0.30	0.10	Bld	Bld
143.5	0.45	0.0	Bld	C.b
142.3	0.20	1.36	Bld	Bld
139.0	0.90	1.39	C.b	Bld
135.0	1.00	1.51	Bld	C.b
132.5	1.10	0.10	Bld	C.b
128.0	1.10	0.85	Bld	C.b
120.0	1.40	0.91	Bld	C.b
114.0	1.95	0.77	Bld	C.b
109.0	2.20	2.00	Bld	C.b
105.6	2.20	2.87	Bld	C.b
103.0	0.05	0.80 est	Bld	Bld
101.2	2.10	2.97	Bld	C.b
99.0	2.30	2.70	Bld	C.b
94.0	1.50	2.43	Bld	C.b
84.0	0.10	1.53	Bld	C.b
70.0	1.80	2.41	Bld	C.b

07/26/06

% E Cover Comments

30

30 veg

50 veg

40 veg

50 edge bld

50 blind Bld

50 Edge Bld

40

40 behind bld

40

30

30

30 Edge bld

130

30

30

40

40

Ex. 280-US-425
Page 21 of 37

38

SP-2 Cascade TR-3

SWOFFER: 3602 PROJ=3A CAL=101

S.B.=0.1 @ 13.45

Substrat

STA Depth Vel Dwn Sub

RWP

175.3

RWE

136.0

0.0 0.0

133.8

0.38

2.15

Cab

ST

132.0

0.60

1.20

Cab

by Gr.

127.0

0.77

1.30

Bld.

C.S.

124.2

0.90

0.49

bld

Cab

123.5

0.90

-

bld

bld

122.8

0.80

1.63

bld

Cab

120.0

1.00

3.80

Cab

bld

117.5

0.80

2.00

Cab

bld

116.0

0.70

0.15

Cab

bld

114.3

1.00

1.70

bld

Cab

115.0

0.15

2.05

bld

Cab

110.0

1.70

3.51

bld

Cab

105.0

1.10

2.56

bld

Cab

100.0

1.50

3.82

bld

Cab

95.0

1.20

1.02

bld

Cab

90.0

2.00

0.31/0.09

bld

Cab

85.0

2.80

3.44/1.59

bld

Cab

80.0

3.40

1.85/0.55

bld

Cab

77.0

3.80

2.00/0.19

bld

Cab

73.0

2.40

1.14

bld

Cab

07/26/06	A. Weybright, M. Gagne		
%E	Cover	Comments	
-	-		
60	veg		
30			
30			
30		side bld	
70			
30		45' to TR	
30			
80		d/s bld	
30		d/s bld	
30			
30			
30		On bld	
40			
30	1/3 V.C. (20')	bld up	
40			
20			
20	1/3 V.C. (-30')	bld 30' up	
20			
20		on bld	

46	5-5.5' Visibility	SP-2	Cascade	TR-2	47
7/26/06					
	Sta	Depth	Vel	Dem	Sub
RWP	119.6'				
RWE	113.9	0	0	Sand	Sand/Veg.
	112.3	0.8	0.03	Cobble	Sand Sand
	111	1.4	0.13 1.11	Cobble	Bldr
	109.5	2.05	0.16 1.34	"	"
	108.3	2.35	0.2	"	"
	107	2.60	1.23 2.67	"	"
	104	3.00	2.07 2.79	Bldr	Cobble
	101	3.25	1.39 4.36	"	"
	98	3.05	2.41 2.82	"	"
	96	3.0	0.94 1.57	"	"
	94	1.5	0.36	"	Bldr
	93	1.05	3.63	"	Bldr
	90.5	1.60	3.63	"	"
	89	2.45	0.17 1.09	Bldr	Snd
	85.5	2.45	0.38 0.24	"	"
	84.5	2.30	3.64	Bldr	Cobble
	82.5	2.00	3.51	"	"
	81.5	0	0	"	Bldr
	80.4	-0.6	-	"	"
	78.7	-2.30	0	"	"
	76.8	2.05	0.10	"	"
	74.5	2.00	0.54	"	Cobble

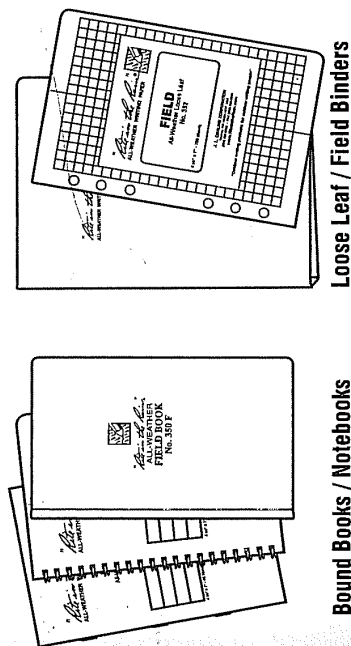
% F	Cover	Comments	
50	50		
60	Vel		
40			
"		15°	
"	Vel		
30		10°	
30			
"			
20			
"	Vel		
"	Vel	Top Bldr	
"		"	
"		"	
"	Vel	Behind Bldr	
"	"	"	
"	"	"	
"		Edge Bldr (Wet edge)	
"		wet edge	
"		top Bldr	
"		wet edge	
"	Vel	Edge Bldr	
"	Vel	25°	

[illegible]

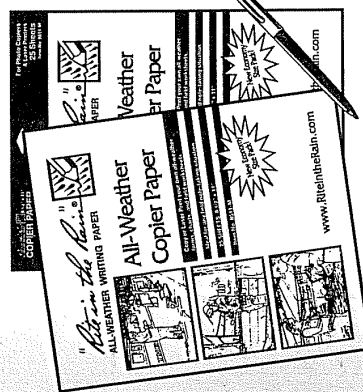
* Estimated



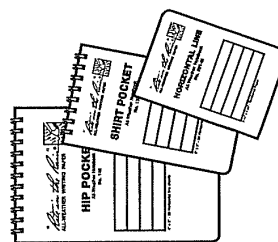
**“Outdoor writing products...
for outdoor writing people.”**



Bound Books / Notebooks



Copier Paper / All-Weather Pens



Memo Books



Klamath 2006

PHABSTIM

Depth \pm Velocity



"It's in the Rain."

ALL-WEATHER

ENVIRONMENTAL

FIELD BOOK

No. 550

1600.07

SP-1, SP-2, WM-2

Klamath

0 \pm V

No. 550 Enviro-Poly Cover



6 32281 55011 2

Location SP-2 Wide Rifle Date 8/30/06Project / Client TR-3

S.G. = 0.68 (9 am) Mash McBirney

9 am

S.G. = 0.67 (1 pm) SUB

STA	DEPTH	VEL	SUBSTRATE	% E
1.0				
18.6	0	0	Silt	
20	+0.4	—	Veg	
24	0.85	-0.01	Bld	75
27	0.3	0.51	Bld	70
30	0.5	0.78	Bld	50
40	1.75	0.78	Bld	50
50	1.1	0.34	"	30
60	0.9	-0.13	"	40
61.5	+0.5	—	"	30
62.5	0.6	0.65	"	30
70	1.1	0.87	Cob	25
79	1.0	0.36	Cob	
80	+0.3	—		
83	0.8	0.21	Cob	25
90	1.38	-0.47	Bld	25
88	1.1	1.37	Cob	25
91.5	0.25	-0.22	Bld	25
93	0.5	0.05	"	"
94	1.5	0.05	"	"
100	1.8	0.04	0.92 Cob	
110	1.95	0.91	Log Grv	
120	2.3	0.46	Log Grv	40

Location 180° Date 90°Project / Client Crew, M. Gagner, C. YoderBOT / TOP 0.2 / 0.6

Cover	Comments
	LWP
	LWE
	out of H ₂ O
	X 185°
	X 100°
upstream vel break	
upstream vel break	
velocity cover	slight back eddy
	out of H ₂ O
	new cells
Bld cover	
	out of H ₂ O
Bld cover	
Bld cover	new cell
	Back eddy
lots of Aquatic	Vegetation
"	"
Aquatic veg cover	
Boulder cover	

Location SP-2 Wide Riffle Date 8/30/06
 Project / Client TR-2 10:20am

Marsh McBirney

STA	DEPTH	VEL	DOM	SUBSTRATE	SUB	%E
156.5						
146.2	0		Silt	Cob		40
145	0.19		Bld	Silt		50
142	0.8	0.28	Bld	Cob		40
140.8	+0.85	—				
139.5	0.45	0.70	Bld	Cob		40
137	0.55	0.45	Med Grv	Cob		30
130	0.8	0.56	Cob	Bld		40
125	+0.05	—	Cob	Bld		30
124.5	0.7	0.01	"	"		"
123	0.55	0.44	"	"		40
115	0.25	0.55	Bld	Cob		30
110	0.90	1.27	Cob	Bld		40
105	1.0	0.75	Bld	Cob		30
102	1.0	0.05	"	"		50
99.8	1.10	0.76	Cob	Bld		30
92	1.2	1.77	"	"		"
82	1.8	1.48	Cob	Bld		30
72	2.3	2.33	Lrg Grv	Cob		25
62	2.1	0.15	Cob	Lrg Grv		20
52.5	1.75	0.65	Bld	Cob		30
42	1.9	0.47	"	"		40

Location 180° 90° Date 8/30/06

Project / Client

Crew: M. Gagner, C. Yoder

Cover	Comments
	RWP
	RWE
	next to boulder
	out of H ₂ O
	edge of boulder
	120°
	out of H ₂ O
	130°
	new cell
	110°
Boulder Cover	
Boulder Cover	
upstream Boulder	

Location SP-2 Wide Effle Date _____
 Project / Client TR-2
 (Continued)

STA	DEPTH	VEL	POM	SUB	% E
32	1.1	0.73	Lg Gv	Bld	40
27	0.7	0.37	Cob	Lg Gv	40
25.5	0.5	0.17	Cob	Bld	50
24.5	0.55	0.2	"	"	"
21	0.6	0.53	Cob	Silt	40
18.7	0.180	0	Cob	Silt	50
18.6	0	0			

Location _____ Date _____
 Project / Client _____

Cover	Comments
Boulder cover	
Object cover	
	edge

Location SP-2 Wide Riffle Date 8/30/06
 Project / Client TR-I 11:10am

Marsh Mc Birney DOM SUB

STA	DEPTH	VEL	SUBSTRATE	% E
160.9				
151.5	0	0	veg	silt
149.5	0.7	0.19	Bedrock	silt
147	0.55	0.63	Bld	cob
145	0.55	0.55	"	"
144.5	0.15	0.05 ^{EST}	"	"
143.5	0.25	0.17	"	"
142.3	0.05	0.07 ⁺	"	"
139	0.7	0.88	"	"
135	0.9	0.85	Cob	Bld
132.5	0.65	0.20	Bld	Cob
128	0.9	0.47	Cob	Bld
120	1.25	0.41	"	"
114	1.8	0.86	Bld	Cob
109	2.2	1.51	Cob	Bld
105.6	2.15	1.85	Bld	Cob
103	+0.2	+		
101.2	2.2	2.55	Bld	Cob
99	2.4	2.73	"	"
94	1.2	2.11	"	"
84	1.6	1.30	Bld	Cob
77	1.4	1.55	Cob	Bld
70	1.4	1.25	Bld	Cob

Location 90° Date 180°
 Project / Client 180°
 Crew: M. Gagner, C. Yoder

Cover	Comments
	RWP
	RWE
	60° E
Ag. Veg.	edge of boulder
Ag. Veg.	behind boulder
Ag. Veg.	edge of boulder
Ag. Veg.	
none	EST
Downstream of Boulder	
Upstream vel cover	
	edge of boulder
	out of H ₂ O, boulder

Location SP-2 Cascade Date 8/30/06

Location

SP-2 Cascade

Date _____

8/30/06

Project / Client

112-3

over

Marsh McBirney

Don SUB

STA	DEPTH	VEL	SUBSTRATE	% E
145.5	0	0		
135.0	0.05	0	Cob	35
133.8	0.4	0.05*	Cob	30
132	0.5	0.79	Cob	35
127	0.6	0.35	Bld	35
124.2	0.9	—		
123.5	0.7	0.45	Bld	35
122.8	0.8	3.00	Bld	25
120	0.5	2.15	"	"
117	0.5	0.91	Bld	30
116.0	0.5 + 0.05	—		
114.3	0.8	1.24	Bld	30
110	1.5	2.68	"	"
105	0.9	1.30	"	"
100.0	1.3	3.37	"	"
95	1.0	1.71	"	"
90	1.9	0.4	Bld	25
85	2.6	1.2 2.2	"	20
80	3.2	0.15 3.3	"	25
77	3.4	0.4 2.05	"	"
73	2.2	1.05	"	"
75	3.5	0.7 2.26	"	"

Location

2

Data

Data

Project / Client:

ROT/TOP

Crew: M. Gagner, C. Yoder

Cover

Comments

22-2

0.125

437457

edge of boulder

of H_2O

250

Object Cover

05/08/2019

70 Boden

STA	DEPTH	VEL	DOM SUBSTRATE	% E
70	3.4	0.80	Bld Bedrock	25
67	72.75	1.53	" "	" "
65	3.0	0.38	" "	" "
60	3.3	0.90	" "	" "
55	3.33	0.48	" "	" "
50	2.8	0.07	" "	" "
45	2.4	0.11	Bedrock Sm. Grd	
42.5	1.5	0.31	Bld Veg	
39.5	0.7	0.11	Bedrock Silt	
35	0.35	0		
35.5	0.15	0	Veg Silt	
33.5	+3.0	—		
30.7	+1.7	—		
30	0.5	0	Bedrock Silt	Ar
28	0.4	0	" "	
26.8	0	0		
1.0				

Cover	Comments
Boulder	
Velocity Shelter	
Aq. Veg	edge of boulder ↑ out of H ₂ O
Aq. Veg	
Aq. Veg	LWE LWP

Location SP-2 Cascade TR-7 Date 8/30/06
Project / Client 2:20 pm

Project / Client

Mash McBirney

QWY 5073

STA	DEPTH VEL	SUBSTRATE	%E
7.0			
31	0		
33	0.7	0.20	50
36	0.6	0.41	"
37	1.1	0.61	"
40	1.4	1.67	Bedrock
43	0.9	0.25	Bld
46	1.3	0.07	"
50	1.5	0.87	"
51	1.6	1.36	"
55	1.6	0.73	Bedrock
60	1.65	0.53	"
63	1.50	1.35	Bld
64.5	0.2	2.47	"
67	2.01	2.45	"
69.3	0.91	2.85	"
69.5	+1.2	—	"
70.5	+1.3	—	"
73.3	+0.35	—	"
73.4	1.7	0.91	Bld
74	1.85	3.65	"
76	1.9	$\frac{0.25}{2.64}$	"
80	2.2	0.87	Bedrock

Location

Project / Client

Crew: C. Yoder, M. Gagner

Cover

Comments

LWP

72

Vog

veg

811

none

Boulder Canyon

even

[illegible]

XZ

0.577 X

	DATE	TIME	LOCATION	WIND DIRECTION	SPEED	TEMPERATURE	HUMIDITY	WEATHER	REMARKS
1	08-09-67	11:00	stream	boulder	cover				

out of 420

Run over

57X

Location SP-2 Cascade TR-2

Date _____

Project / Client _____

(Continued)

BOT / TOP

STA	DEPTH	VEL	DOM	SUB
			SUBSTRATE	%
85.5	2.3	1.72	Bld	Bedrock
90	2.2	0.19	"	"
95	2.1	0.20	"	"
		3.43	"	"
100	2.35	2.22	"	"
103	2.7	1.14	"	"
		2.98	"	"
105	1.7	2.39	"	"
107	1.4	3.47	Bld	Bedrock
109.5	+0.3	—		
111	1.9	2.81	Bld	Bedrock
		1.2	"	"
112.5	1.5	2.71	"	"
114	0.7	1.51	"	"
116.5	1.1	0.32	Bld	Bedrock 50
120	0.3	0.15	Bld	Bedrock 30
122	0.35	0.31	Bld	Cob 40
125.5	0.60	0.05	"	"
128	0	0		
131				
142.3				

Location _____

Date _____

Project / Client _____

Cover	Comments
	Top of Boulder
	65°
	180°
	120°
	RNE
	RNP
	Boulder cover

Location SP-2 Cascade TR-1 Date 8/30/06
 Project / Client MASH McBurney DOM SUB 3:30pm

STA	DEPTH	VEL	SUBSTRATE	%E
113.3	0	0	Bld	Veg
112.3	0.6	0.11	Bld	Colb
111	1.1	0.05	Bld	Colb
109.5	1.6	0.05	Bld	Colb
108.3	2.2	0.30	Bld	"
107	2.2	1.59	Bld	Bedrock
104	2.8	1.14	"	"
101	2.9	2.48	"	"
98	2.46	2.86	"	"
96	2.8	0.87	"	"
94	1.3	0.47	"	"
93	0.8	3.25	"	"
90.5	1.5	3.10	"	"
89	2.1	-0.20	"	"
85.5	2.0	0.45	Bld	Bedrock
84.5	2.0	3.59	"	"
82.5	1.9	3.02	"	"
81.5	+0.3	—	"	"
80.4	+1.0	—	"	"
78.7	+0.2	—	"	"
76.8	2.0	0.33	Bedrock	Bld
74.5	2.0	0.24	"	"

Location BOT/TOP Date _____
 Project / Client Crew: M. Grogger, C. Yoder

Cover	Comments
	RWE (RWP 19.6)
Boulder Cover	
Upstream Vel break lag boulder	
Boulder cover	
Behind lag boulder	
Boulder Cover	
	Out of H2O
Boulder Cover	

Location SP-2 TR-1 Cascade Date _____

Location :

Date:

Project / Client

(continued)

(Continued)

STA	DEPTH	VEL	SUBSTRATE	DOWN SUB	%E
71.3	2.25	0.64	Bedrock	Bld	
69.5	2.0	0.62	"	"	
		1.56			
65	3.0	2.2	Bld	Cob	30
62	2.5	1.96	"	"	"
		2.57			
61	2.0	2.63	"	"	"
58	1.1	1.75	Bld	Bedrock	30
56	1.0	2.95	"	"	"
54	1.15	0.11	"	"	"
50.2	1.7	0.13	"	"	"
49	1.35	1.52	"	"	"
47	1.3	1.02			
43	1.2	0.45	Bld	Bedrock	40
38	1.0	0.05*	Bld	Cob	40
34	0.45	.0	Bld	Cob	40
31	0.5	0	"	"	"
29	0.65	0	"	"	"
28.7	0	0	Bld	Bedrock	40
1.0					

Location:

Date: _____

Project / Client :

Cover

Comment

Downstream of boulder $\approx 170^\circ$
Boulder cover in eddy

Boulder Cover

Back adding

Boulder Canyon

727

23